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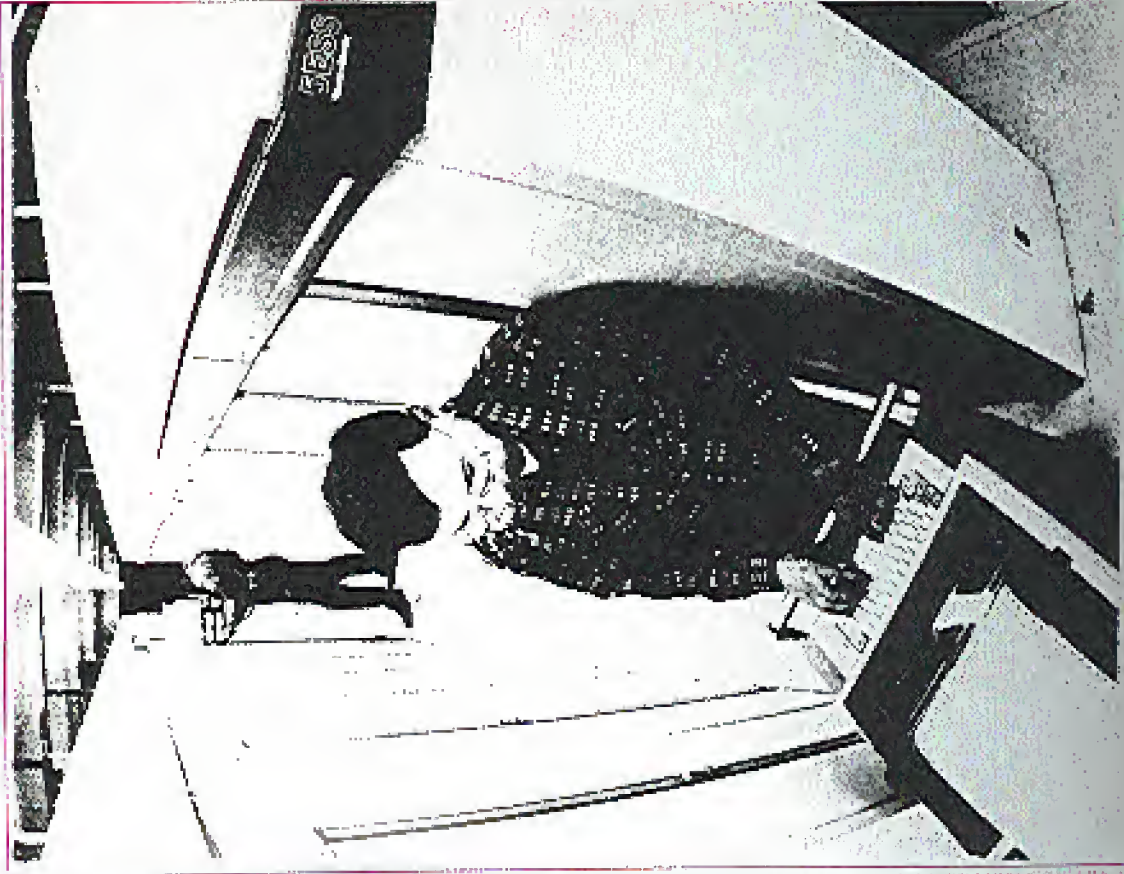
26000

The Monthly Journal of the American Hacker

Volume 4, Number 11

November, 1987

\$2



Attention Readers!

2600 is always looking for information that we can pass on to you. Whether it is an article, data, or an interesting news item—if you have something to offer, send it to us!

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We now have several ways of staying in touch with the rest of the world. As promised, the first official bulletin boards of 2600 Magazine are now online with more on the way.

We're quite happy with what we've started out with. The two boards are both in area code 914, just north of New York City. Board #1 is the legendary OSUNY, a BBS that has been talking about phone phreaking and computer hacking for longer than any other board that we can remember. In fact, OSUNY is mentioned on the very first page of

our very first issue. And it's also been referred to in Newsweek, although not very accurately. Board #2 is the Central Office, another well known bulletin board for hackers and phreaks. We're proud to be affiliated with these boards and we'd like to ask anyone else

interested in running a 2600 board to log onto these first 50 you can see what a 2600 board is all about.

As we've stated previously, these boards are completely open to whoever calls in. No one is off limits or for "elite" users only. There are no areas of

(continued on page 10)

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HACKING IBM'S

by Lex Lubber
and The Legion of Hackers
Introduction

IBM mainframe computers make up over 50 percent of the mainframes used today in the United States. These systems are traditionally used in industries such as insurance, banking, universities, and so on. For some reason, IBM systems as a whole have not been very popular with hackers. This may be due to the complexity of the operating systems run on IBM systems compared to others such as UNIX or VMS. Another reason may be that there is much variety from shop to shop. IBM systems are more commonly modified and customized to fit an individual corporation's needs and the lack of 'universality' for programs, files, programs, and other procedures makes it difficult to attempt to use without any type of specific documentation. The lack of detailed on-line help also hinders the hacker. I believe that the VM/CMS Operating System is by far the best and easiest to learn of the IBM systems. But compared to other Operating Systems like UNIX or VMS, VM/CMS is cumbersome and harder to learn.

Acronym

Before I even attempt to start this article, I will list the IBM specific acronyms we will be using and some clues that you may find on various IBM systems. If I list them here so I will not have to do it throughout the article. If you need to know what one of them means later, just refer back to this list.

- VM/SP: Virtual Machine/System Product
- CP: Control Program
- CMS: Conversational Monitoring System
- HELP: High Performance Option
- VSE: Virtual Storage Extended
- MVS: Multiple Virtual Storage
- TSO: Time Sharing Option
- JES: Job Entry System
- CICS: Customer Information Control System
- VSAM: Virtual Storage Access Method
- VPLM: Virtual Telecommunications Access Method
- IK: Interactive Executive
- IPL: Initial Program Load
- WV: Installation Verification Program
- RISQ: Remote Spooling Communications Subsystem
- OASO: Direct Access Storage Device

HELP: Environmental Recording and Printing

- SNA: Systems Network Architecture
- KOEF: Network Communications Control Facility
- REXX: Restructured Extended Executive Language
- VTOC: Volume Table Of Contents
- DDBS: Display Operator Console System
- JCL: Job Control Language
- ACE: Advanced Communications Functions
- SQL/QS: Structural Query Language/Data System
- DBA: Data Base Administrator
- GDS: Group Control System
- SQP: System Control Program
- FDP: Field Development Program
- CNE: Communications Network Application
- PDF: Programmable Operator Facility
- PSW: Program Status Word
- SSQP: Subsystem Services Control Point
- IPCS: Interactive Problem Control System
- CCSS: Cuesynchronous Shared Segments
- VMCF: Virtual Machine Communications Facility
- EMO: Field In First Out
- LFPO: Load In First Out
- AP: Attached Processor
- MP: Main Processor
- R/O: Read/Only
- R/W: Read/Write

Logging In

Typically, when you come across a system running an older version of CMS, it will report to you:

```
VM/370 ONLINE
```

This message is somewhere of a contradiction. The majority of VM/CMS systems are only run on actual 370 systems but on other processors, such as the 43XX series and the 80XX series.

The printed '*' prompt is the surest way of verifying that you have indeed connected to a VM/CMS system, aside from the 'VM/370 ONLINE' message which is usually printed. This prompt should not be confused with DEC's TOPS-10 system, which also uses the prompt of a period. Newer versions will give you this menu:

Enter one of the following commands:

```
LOGON userid [Example: LOGON VMUSER01]
DIAL serial [Example: DIAL VMUSER02]
```

VM/CMS

MSB userid message (Example: MSB VMUSER01
GOOD MORNING)
LOGOFF

This menu may vary from system to system, since system managers may opt to omit commands from the menu or add others. When hacking a system, this menu will appear before you can attempt to login, thus becoming very tedious and time consuming especially at 300 baud as you have to wait an eternity for each login attempt.

Compared to other operating systems... VM/CMS is cumbersome and harder to learn.

Other responses after connecting are "Ready to Host", "Press break key to begin session", and "Invalid Switch Characters". The last response is commonly found on Telnet and other packet switched networks, in which you may have to specify "VM" for a VM/CMS system, or "TSO" for an MVS/TSO system. There may be either IBM systems to select from or "VM" may not be a valid system. You may also have to specify "LOGON VM" or just "LOGON" before the port selector prompts you to the host system.

LOGON can be abbreviated as just 'L'. A userid can be from 1-8 characters in length, but the first character must be a letter (in most systems you come across this will be true, but due to customization of systems, it's possible this and even the 8 character password limit may be extended). A typical login may look like:

1.COMMSDLO SYSBUSINESS M01PL

'S' is the system prompt, L is the LOGON command, COMMSDLO is the userid, SYSBUSINESS is the password, and M01PL is the only login qualifier allowed for the VM/CMS system. M01PL specifies that the IPL name or service in the VM/SP directory should not be used for an automatic IPL. IPL stimulates the LOGON button and the device address switches on the real computer console. Realistically it "boots" your part of the CMS system. This is another different concept. A user can boot (or crash) their part of the system, not the whole system (in most

cases). M01PL would be used when a system dumps you into a program which allows you little or no mobility such as a restricted menu of options (i.e., a system backup utility) and logs you off without gaining access to CMS. M01PL will prevent this program from running if it is listed in your automatic IPL only within the CP directory. This should allow you access to the system. Otherwise the program was scheduled to run within your PROFILE EXEC which lets things to be done upon login. M01PL is somewhat similar but not identical to the login qualifier "NOCOMMAND" for DEC's VAX/VMS systems.

If the Password Suppression Facility is installed on the system, you will receive an invalid format message whenever the userid and password are entered on the same line. This is obviously a security measure to prevent users from entering their password in full view of anyone who may be watching as the password is not "masked". Thus, you will have to enter your password on a separate line when the system prompts you for it. The advantage of entering the userid and password on one line (especially at 300 baud) is that you can try more userids and passwords in a shorter period of time while still availing yourself of the system's generosity of allowing you when an invalid userid has been entered.

Error messages

There are various error messages one may encounter while logging into the VM/CMS system. The ones you should be most concerned about are:

Userid not in CP directory. When an invalid userid has been entered, you will receive this message. This indication gives the hacker a distinct advantage for gaining entry to the system. Probably the last guest security hole in any system comes from telling the user when a valid username has been entered. After all, containing a valid userid is half the battle. The other half is obtaining a valid password. Even the weakest operating systems no longer give an indication of when a valid ID has been entered. Why IBM has not changed this is a mystery to me.

When a valid userid is entered you will be asked to enter a password if you did not already do so. If the password is correct, the system will attempt to log you on. If not, you will receive one of two messages:

(continued on page 16)

Listening in: catch me if you can!

by The LMA Master

Are you tired of watching scrambled video from HBO and the Movie Channel, etc.? And you don't want to watch Dr. Gene Scott or Jerry Lawler on any of the other TV channels? Do you feel your satellite dish is going to waste? Well, here's something fun you can do with it.

In addition to receiving video and audio signals, your satellite dish can be used as a multipurpose device. Yes, some of you can actually wiretap from your own living room—2 fact, you probably didn't know. Wiretapping is illegal, but as the title of this article says, catch me if you can. It's virtually impossible to detect this particular brand of listening in.

All you need for this project is your basic home satellite dish antenna, also known as TVRO or television receive only. What you need to do is turn to the AT&T satellite known as Telstar 301. You'll notice on screen Channel 20 and 23 (that is, Channel 21 and 22) you'll see a blank screen with mere noise a station there. You won't hear anything except maybe an occasional garbled sound.

That's what you do to listen in on phone calls. Take a general coverage shortwave receiver (covering between AM broadcast band and 30 megacycles). Connect the antenna input of your shortwave to the video out terminal on your satellite receiver. Turn the shortwave receiver on lower side band (USB) anywhere between the broadcast band (1.8 megahertz) and 7.5 megahertz. Make sure your satellite receiver is either on Channel 21 or 22. You will pick up more calls to Hawaii, Puerto Rico, Alaska, and the Caribbean than you ever thought possible. Who would have dreamed there would have been that many phone calls to listen in? About every 30 kilohertz there is a phone conversation. If you do not hear a phone conversation, you will hear a continuous tone of 2800 hertz. Tune your receiver to where you believe 2800 is coming in perfectly, then listen for a click followed by MF (blue box) tones followed by a ring. You will then be able to listen in on AT&T calls to area code 808, 809, and 907.

For frequencies above 4.1 megahertz, switch to upper side band (USB). Also, you can tune in Channel 8 of Telstar 301. It appears that Channel 8 on your standard satellite receiver box six-bits

to the US Sprint service from the mainland to Hawaii. Sprint codes can be (and have been) gotten successfully by listening to the calls. Interesting conversations are all over the place, such as the man from Long Island who has two wives and was promising the second wife over the phone that she could stay in his house in Hawaii until the "got rid of" wife number one.

Telstar 301 can be found at 96 MHz on the satellite dish Spacenet 2, which is located at 89 MHz all US Sprint. Domestic calls as well as overseas calls can be monitored.

Other interesting satellites are ASC 1 at 128 MHz, Westar 2 at 79 MHz, and Comstar B4 at 70 MHz. Or, more simply tune across until you find a blank channel that looks like it's carrying a signal. Then turn the shortwave receiver anywhere between 1.6 and 7.5 megahertz. If the conversation doesn't straighten up, switch to LSB or USB on the shortwave.

THE TOP SECRET REGISTRY OF U.S. GOVERNMENT RADIO FREQUENCIES

517-600-0001
21200 North, Santa

6th Edition



A Review of "The Top Secret" Registry
of U.S. Government Radio Frequencies"

by Mr. Leon

Scanner listening seems to have a certain mystique among phreaks and hackers, particularly in regards to listening to mobile/cordless/rotular phones, and certain government agencies. However, unlike mobile phones, whose frequencies are well known, the "hidden" frequencies appear to be hidden away from

001-003	New Hampshire	443-448	Oklahoma
004-007	Maine	449-457	Texas
008-009	Vermont	452-477	Minnesota
010-034	Massachusetts	478-485	Iowa
035-039	Rhode Island	486-500	Missouri
040-049	Connecticut	501-502	North Dakota
050-134	New York	503-504	South Dakota
135-158	New Jersey	505-508	Nebraska
159-211	Pennsylvania	509-515	Kansas
212-220	Maryland	516-517	Montana
221-232	Delaware	519-519	Idaho
223-231	Virginia	520-	Wyoming
232-236	West Virginia	521-524	Colorado
237-238	North Carolina	525	New Mexico
239-246	North Carolina	526	New Mexico
247-251	South Carolina	526-527	Arizona
252-260	Georgia	600-601	Arkansas
261-267	Florida	528-529	Utah
268-292	Florida	530	Nevada
303-317	Ohio	531-539	Washington
318-361	Indiana	540-541	Oregon
362-386	Illinois	545-573	California
387-399	Michigan	602-626	California
400-407	Wisconsin	574	Alaska
408-415	Kentucky	675-676	Hawaii
416-421	Tennessee	677-679	Washington, DC
425-428	Alabama	580-584	Puerto Rico
437-438	Mississippi	586-589	Virgin Islands
439-432	Mississippi	586	Guam, Samoa
433-439	Arizona	700-728	Bahamas

Some numbers are shown more than once because they have been transferred from one state to another or have been divided for use among certain geographical locations. No new 700-series railroad numbers have been issued since July 1, 1963. These are used by credit agencies and other services when verifying bills/planes, tracking down individuals, or for use in creating new identification.

the telecom informer

BY STAFF

They've done it again. This time, after repeatedly and aggressively promoting their 550 talk line numbers (phone numbers beginning with 550 that connect callers to total strangers), New England Telephone has devised a plan to block access to these numbers from your home—for a monthly charge. This is supposed to benefit those people who listened the first time and called all those numbers in the advertisements, winding up with an incredible bill. Now that they've been given a taste of what kind of "accidents" their phones can have, a dollar or two for "insurance" isn't so unreasonable. Where have we seen this before? ... New Jersey may soon have talking yellow pages. Using a touch-tone phone, subscribers will be able to call a computerized system, enter a four-digit number, and listen to a recorded message containing theater events, stock market reports, and anything else you could possibly want. The service will be free to subscribers. To advertise on it will cost about \$80 a month.... In Annapolis, Maryland, a man pleaded guilty to sending long distance telephone service using his home computer, which the

250 Reading Service

- 1. **What is the Reading Service?** The Reading Service is a free telephone service that provides a variety of services to subscribers. It is available to subscribers in the United States and Canada. The service is available to subscribers in the United States and Canada. The service is available to subscribers in the United States and Canada.
- 2. **How do I use the Reading Service?** To use the Reading Service, you must first call the service at 1-800-250-2500. Once you are connected to the service, you can use the service to read books, newspapers, and magazines. You can also use the service to read the news, weather, and sports. The service is available to subscribers in the United States and Canada.
- 3. **What are the benefits of the Reading Service?** The Reading Service provides a variety of benefits to subscribers. It is a free service that provides a variety of services to subscribers. It is available to subscribers in the United States and Canada. The service is available to subscribers in the United States and Canada.
- 4. **How do I cancel the Reading Service?** To cancel the Reading Service, you must call the service at 1-800-250-2500. You must provide your account number and your name. The service is available to subscribers in the United States and Canada.
- 5. **What are the terms and conditions of the Reading Service?** The Reading Service is provided on a non-exclusive basis. The service is available to subscribers in the United States and Canada. The service is available to subscribers in the United States and Canada.

judge ordered destroyed. An intelligent man... While MCI and US Sprint are trying to grow and recover from their losses, AT&T is trying their best to knock them out. AT&T has started a new program for COC OT (Customer Owned Coin Operated Telephone) companies. The contract for this program makes that payphone companies route all their long distance traffic through AT&T. The companies receive between 3 and 17 percent commission depending on how much long distance usage there is. The contract also states that the phones cannot process Visa or Mastercard calls (many COC OT's now have a magnetic card reader installed), and goes on to say 950 and 30xx calls are not allowed unless the payphone itself requires them in that state. An interesting note: in New York State the only rules governing COC OT's are 1) they must give free 911 service; 2) they must give free local directory assistance or have a phone book nearby (a book in the same building, certainly); and finally 3) either one or around the phones there must be a number for service or complaints... MCI is expanding International Direct Dialing. As of September 18, Israel was MCI's 58th direct dial country. They will lease equipment from AT&T to facilitate long distance service to another 140 countries... US Sprint now provides access to over 80 countries, while only about 20 are dialable with a KONY card (Sprint's calling card service). The rest of the countries are only dialable with 1+ service. Among the countries not dialable by calling card are Argentina, Chile, Dominican Republic, Hong Kong, and Taiwan. (As of November 7, US Sprint suspended international calls to the Dominican Republic from area codes 212 and 903.) US Sprint says by the end of the year they should handle over 80 countries... MCI will offer operator service in 1988 so that subscribers can use calling cards from a

retary phone. Once that is established they will also offer collect calls, trouble assistance, and other operator services. US Sprint has provided operator service for a good while now. Just dial 800-332-0777 or for you equal access area 103330 (10770 is now extinct)... While both MCI and US Sprint are offering 800 service neither provides 800 directory assistance. Take 800-444-9999, an MCI 800 number owned by Mrs. Fields Cookies—we called MCI and asked them if they had the 800 number for Mrs. Fields. They told us rather matter of factly that the number for 800 directory assistance is 800-555-1212. We tried to explain that *their* number was for AT&T 800 numbers, but were silenced with a click. When we called 800-555-1212, we asked the woman who answered "AT&T 800 information," if she had the number for Mrs. Fields Cookies. She said there was no listing. It just goes to show if you're going to get an MCI 800 number, you have to advertise or else no one will ever call you... With US Sprint's ongoing advertising nonsense about hearing a ping drop over the world's only fiber optic network they neglect to mention that you can also hear one drop on every long distance company—AT&T, MCI, Allnet, ITT, RCI, Western Union (oh well, almost every company). In its continuing quest to cut over to "Network 3" (originally scheduled to be completed by June 27, 1987), US Sprint has sent out notices to old GTLE Sprint (950-0777) customers. The 9 digit codes (which started out as 7 digits plus a 2 digit travel code) were replaced by a 7 digit code which can only be used from your home town. Even these new codes were only given out to customers without area access. Until now when you traveled you could still dial 950-0777 and place a call without a surcharge. Now when you leave your city you must use your FON card and pay a 35 cent surcharge with each call. The letter continued stating that one day

soon when you call your access number (for the 7 digit home codes) you will hear a recording giving you a new number. This day has already come. There goes the last bit of GTLE Sprint left in US Sprint. And soon they'll be selling their old network (see illustration)... Southern Bell has a new service for Florida residents who travel. Called "The Right Touch Service", this program allows customers to disconnect and reconnect their telephone service via a touch tone phone. From anywhere in the country you can call 800-826-6290 to receive a series of interactive recordings. Callers are asked to enter their telephone number which must be in area codes 305, 813, or 904. They are then prompted for a personal access code. This 4-digit PIN number (not the calling card PIN) was mailed to customers recently. When this service was

(continued on next page)

Now's your chance
US Sprint is selling a 9,670-mile communication network.

Small print and other information...
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1-800-546-4825

(Continued from previous page)

introduced a few months ago, customers had Sprint PINs. It's quite possible that those first PINs were actually the "account codes", those three numbers that follow the telephone number on the phone bill. With this service, there is no fee to turn off your phone line, but there is a \$20.50 charge to turn it back on. Right Touch is available 24 hours a day and has the capacity to handle 26 callers simultaneously. While it may be a handy convenience, we wouldn't be surprised if the service got more abuse than use.

Considering the amount of lines in Florida, Southern Bell may have used some sort of formula to assign the PINs, thereby avoiding the trouble of entering millions of PINs for their customers. If anyone finds this to be true, give us a call. Sanford Birmingham of C/O Magazine reported that when the service first started, he gave 305-555-1212 as his number. "I gave 999 as my code. Astonishingly it worked. The voice changed me and began to ask questions." Since then, the system has been programmed not to accept 555, 950, 976, and others as valid exchanges. On a similar note, customers of South Central Bell can dial 1-557-7777, a toll-free number accessible only to local callers, to get billing information, disconnect or reconnect service, arrange for payment, order a duplicate copy of their phone bill or custom calling services, all without having to deal with the business office. (What is left for the business office to handle? More likely, complaints about this new service.)

South Central Bell started this service on a trial basis in early September with 40,000 customers in Kentucky. And finally, we've discovered a marvelous little game you can play with Sprint representatives. If you call 800-521-4949, they'll answer with the following greeting: "Thank you for calling US Sprint. By placing your order today, you will enjoy the greatest sounding long distance calls ever. My name is [name]."

How may I help you? (This is one of the longest greetings we've ever heard and we've made an amazing discovery concerning it. If you hit a touch tone in the middle of the greeting, the representative on the other end automatically jumps to the word "Hello!" It's just like an interactive computer! Try it today.)

(Continued from page 2)

the systems where credit card numbers, PIN codes, or passwords are being stored. But we refuse to put restrictions on users' private mail. Above all else, private mail must remain private. Even the system operator has no idea what is in each user's private mailbox—that's the only fair way to run a system. Of course, it's quite possible that someone will send a Sprint code to someone else (Or a poem. We do not take responsibility for the contents of private mail. And neither does the post office.)

Both boards are similar in format. There are a series of rooms to "GOTO". Some of them are obvious, some may take a little guesswork. You can choose the rooms you want to be a part of or even create rooms. Entry is not restricted or monitored, but you do have to know the name of the room you're entering. (This is not hard information to come by, either through guessing or asking around.) Files are also stored in some of the rooms. These are easy to look at and download.

There is plenty of online help available for users. And should you run into a problem of any sort, simply leave feedback or call us at (516) 751-2600. Every 2600 board will have an area for users to leave us public feedback. Both of these boards have a 2600 room. You can use this feature to communicate with other subscribers, offer criticism, praise, and suggestions. Of course, you can also do this privately by sending us mail. These systems are completely free to use and full of information and

(Continued on page 21)



MCI Telecommunications Corporation
Serving Your Progress
Customer Service 24 Hours
1-800-444-3133
1-800-444-3133

Date: November 12, 1987

RE: Account # _____

A recent review of your account indicates a possible breach in the security of the authorization code.

Due to this fact, we have changed your authorization code as follows:

Old Code _____ New Code _____

This change has been made for your protection and is effective immediately.

If you are billed for any unauthorized calls, please circle them and deduct from your charges. For further investigation, the entire invoice should be returned with payment to: MCI Northwest Division Investigative Department at the above address.

If you have any questions about your MCI account, please call:

Commercial 800-444-3535
Residential 800-444-3133

Sincerely,
MCI Northwest
Investigative Department

WHY DO THESE LETTERS ALWAYS LOOK SO SLOPPILY WRITTEN? In addition to their inability to spell "commercial", MCI doesn't seem to be able to make our new code work. When we called to find out why, the friendly representative told us that "effective immediately" means 5 to 7 days in most cases. In addition to providing long distance alternatives, MCI now provides logic alternatives. Meanwhile, US Sprint still hasn't gotten around to taking away that \$1200 outstanding balance that someone racked up on our account. "Just ignore it," they keep saying. That ought to be their corporate slogan. On our last conversation, they told us that we actually had a \$12,000 bill a few months ago which they never sent us since it seemed unusual. And so it goes.

Double Beeper

Dear 2600:

Recently you mentioned beeper companies not yet being raided by the police for phone numbers. They don't have to raid them! According to a friend who runs a large beeper company, the authorities can, with a warrant, legally obtain duplicate beeper numbers. Any access to the monitored number also beeps the duplicate number in the police station.

Bob from Los Angeles

How clever. So now we have beeper tapping. But will the beeper companies be as cooperative with the authorities as the phone companies?

Why No Boxing?

Dear 2600:

In the course of two years of telecom, I've read countless G-films which describe the (virtual) spectrum of "boxes". Yet few files I've encountered give a clear explanation as to why boxing is impossible in electronic switching offices. Would you mind explaining Common Channel Interoffice Signaling (CCIS), and just how an electronic office "prevents" boxing? Thanks.

Franken Gibe
Texas

Put quite simply, it's impossible to use a blue box in an electronic switching office under CCIS because the equivalent of the blue box tones that a phone phreak would send are transmitted over a completely different line. Since you don't have access to these lines, blue boxing no longer works. This is also called out-of-band signaling. For a more thorough discussion, refer to page 2-7 of the 2600 1985 collection, available from us for \$25.

Apple Hacking

Dear 2600:

I thought some of your readers might be interested in the following:

Does your school have a bunch of Apples hooked up to a Corvis? Well, if they do, this is for you.

If you want all the accounts and passwords all you have to do is follow these simple instructions. First when it prompts you for your ID, simply hit ctrl-reset a few times. You should now have an Applesoft Basic prompt. Now type in this one line program:
10 FOR I=6281 TO 7252:PRINT CHR\$(PEEK(I)):NEXT I

Now that you have that typed in, RUN it. The program should dump all of the passwords onto the screen. User names are usually two to four characters long. Passwords are two characters long. Also, disregard any punctuation following a password.

Let's say you had some output that looked like this: ". P1 P2 TYIPXX P3...". The "P1" and "P2" would be user IDs that require no passwords. The "TYIPXX" would be user id "TYIP", password "XX", "P3" would be the same as "P1" and "P2".

That's the basics of Hacking Corvis Constellation. Until next time have fun and hack on.

The Ritter

More How-To Articles

Dear 2600:

It's been awhile since I've seen an article on boxing. Why don't you run a how-to article—one that addresses international calling procedures? I'm sure you have the capability of coming up with a very informative article on this subject, and many readers would appreciate it.

WRITE US A LETTER?

While we have a number of how-to articles that we've published in the past, we'll be happy to print any new information, including new boxes, calling techniques, etc. International calling and red boxes are at the top of our "wanted" list.

A New Source

Dear 2600:

I just found a great source for information on news about security and suchlike. It's in a quarterly journal called ACM SIGSOFT, which is the "special interest/software" group of the Association for Computing Machinery. The articles within contain a lot of interesting issues about security and so on, and many are also amusing.

Reading these articles makes me realize how much I miss the news column of your magazine. Through some phreaks and hackers feel this stuff is just fluff and would rather see technical diagrams in its place. I felt it was the best part of the journal. I enjoy reading about VMS tricks to grab passwords, but I also want to know about what's happening in the world out there (other than the latest phreak arrest). Vandal-phreaks cause some damage, but I also find it enlightening to read items like "The FBI estimates the average theft loss from computer frauds at \$600,000 [per fraud]", as on page 13 of this July's ACM SIGSOFT.

You might want to mention the existence of this resource as I suspect there are quite a few of us wild and weird news junkies still out there in subscriberland.

E.H.

We still have a news column. It's called *The Telecom Informer* and it combines all kinds of newsworthy items into one long, rambling article.

We'll try to cover as many interesting occurrences as we can for future editions. For readers interested in subscribing to ACM SIGSOFT, write to the Association for Computing Machinery Inc. (ACM), Post Office Box 12114, Church Street Station, New York, NY 10249. Let us know what you find out.

Pen Registers

Dear 2600:

As I stated in a previous letter, my Radio Shack pen register doesn't record numbers when I use a cordless phone (Phonexmate).

It would be interesting to know the make of the pen register and cordless phone that "Worried and Upset in Arizona" uses that does register phone numbers (September 1987 letters page).

Samuel Rubin

Unique Projects

Dear 2600:

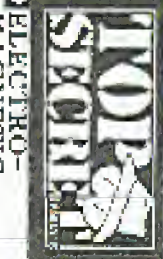
No one makes the following for the Apple:

1. A combination speech generator, clock, printer buffer, and copy card. Maybe even some ROM memory.
 2. A 110, 300, 1200, 2400 baud modem with European and American tones for 110 and 300 baud, auto dial.
 3. A card for interfacing an Apple to almost any hard disk. Also needed is a way around the ProDos limit of 2 32-meg disks per slot.
 4. A coprocessor/accelerator card that has all three major processors on one card: FAST 6502, Z 80, and 68000 plus 64K ram.
- Any takers?

John Nix

(continued on page 22)

TOP SECRET
 This is a classified document. It contains information that is so classified because its disclosure could result in the identification of sources, methods, or equipment of the Central Intelligence Agency or the National Security Agency, or the disclosure of information that is so classified because its disclosure could result in the identification of sources, methods, or equipment of the Central Intelligence Agency or the National Security Agency, or the disclosure of information that is so classified because its disclosure could result in the identification of sources, methods, or equipment of the Central Intelligence Agency or the National Security Agency.



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AUTOMATIC TELLER MACHINES - 41
 After a year of slow growth and high inflation, the ATM industry is expected to experience a significant increase in the number of machines installed in 1987. This is due to the fact that the ATM industry is now becoming a major force in the financial services industry.

SCAMMED CARD
 If you've ever had a credit card stolen, you know how frustrating it can be. Now you can protect yourself with a new type of credit card that is virtually impossible to counterfeit.

FDIC - FACT OR FAIRY TALE?
 The Federal Deposit Insurance Corporation (FDIC) is a government agency that insures deposits in banks and savings institutions. It is one of the most important agencies in the financial services industry.

PHONE COLOR BOXES - 41
 The new color phone boxes are a major improvement over the old black and white boxes. They are more attractive and easier to use, and they provide a more secure environment for the user.

PHONE RECORD INTERFACES - 41
 The new phone record interfaces are a major improvement over the old interfaces. They are more secure and easier to use, and they provide a more secure environment for the user.

SECRET AND SURVIVAL RADIO - 41
 The new secret and survival radio is a major improvement over the old radio. It is more secure and easier to use, and it provides a more secure environment for the user.

COMPUTER PHREAKING - 41
 Computer phreaking is a type of computer hacking that involves using a computer to make long distance telephone calls for free. It is a major security concern for telephone companies.

ABSOLUTE COMPUTER SECURITY - 41
 Absolute computer security is a type of computer security that involves using a computer to protect sensitive information. It is a major security concern for businesses and government agencies.

CRYPTANALYSIS TECHNIQUES - 41
 Cryptanalysis is a type of computer security that involves using a computer to break codes and decipher messages. It is a major security concern for businesses and government agencies.

ELECTRO-MAGNETIC BLASTER
 The new electro-magnetic blaster is a major improvement over the old blaster. It is more powerful and easier to use, and it provides a more secure environment for the user.

HIGH VOLTAGE DEVICES
 The new high voltage devices are a major improvement over the old devices. They are more powerful and easier to use, and they provide a more secure environment for the user.

SURVIVAL GUNS & AMMO - 41
 The new survival guns and ammo are a major improvement over the old guns and ammo. They are more powerful and easier to use, and they provide a more secure environment for the user.

SILFENCES GOLDEN - 41
 The new silfences golden are a major improvement over the old silfences golden. They are more powerful and easier to use, and they provide a more secure environment for the user.

MUGGER, RAPIST - DIE!
 The new mugger, rapist, die! is a major improvement over the old mugger, rapist, die!. It is more powerful and easier to use, and it provides a more secure environment for the user.

FIREWORKS!
 The new fireworks! are a major improvement over the old fireworks!. They are more powerful and easier to use, and they provide a more secure environment for the user.

STEALTH TECHNOLOGY - 41
 The new stealth technology is a major improvement over the old technology. It is more powerful and easier to use, and it provides a more secure environment for the user.

POLYGRAPH DEFEATS - 41
 The new polygraph defeats are a major improvement over the old defeats. They are more powerful and easier to use, and they provide a more secure environment for the user.

RENTAL EQUIPMENT - 41
 The new rental equipment is a major improvement over the old equipment. It is more powerful and easier to use, and it provides a more secure environment for the user.

CONSULTANTS
 The new consultants are a major improvement over the old consultants. They are more powerful and easier to use, and they provide a more secure environment for the user.

SURVIVE AND WIN - 41
 The new survive and win is a major improvement over the old survive and win. It is more powerful and easier to use, and it provides a more secure environment for the user.

SELECTIVE AND MANT
 The new selective and mant is a major improvement over the old selective and mant. It is more powerful and easier to use, and it provides a more secure environment for the user.

KWHR METERS
 The new kwhr meters are a major improvement over the old meters. They are more powerful and easier to use, and they provide a more secure environment for the user.

WORTX GENERATOR - 41
 The new wortx generator is a major improvement over the old generator. It is more powerful and easier to use, and it provides a more secure environment for the user.

STOPPING POWER METERS - 41
 The new stopping power meters are a major improvement over the old meters. They are more powerful and easier to use, and they provide a more secure environment for the user.

IRON GONADS - 41
 The new iron gonads are a major improvement over the old gonads. They are more powerful and easier to use, and they provide a more secure environment for the user.

LIBERATE GAS & WATER - 41
 The new liberate gas and water is a major improvement over the old gas and water. It is more powerful and easier to use, and it provides a more secure environment for the user.

GAS FOR ALL - 41
 The new gas for all is a major improvement over the old gas for all. It is more powerful and easier to use, and it provides a more secure environment for the user.

SECRET & ALTERNATE IDENTITIES - 41
 The new secret and alternate identities is a major improvement over the old identities. It is more powerful and easier to use, and it provides a more secure environment for the user.

VOICE DISGUISE - 41
 The new voice disguise is a major improvement over the old disguise. It is more powerful and easier to use, and it provides a more secure environment for the user.

FREE - 41
 The new free is a major improvement over the old free. It is more powerful and easier to use, and it provides a more secure environment for the user.

SHOP LIFT - 41
 The new shop lift is a major improvement over the old lift. It is more powerful and easier to use, and it provides a more secure environment for the user.

DISK SERVICE MANUAL - 41
 The new disk service manual is a major improvement over the old manual. It is more powerful and easier to use, and it provides a more secure environment for the user.

DISK DRIVE TUTORIAL - 41
 The new disk drive tutorial is a major improvement over the old tutorial. It is more powerful and easier to use, and it provides a more secure environment for the user.

PRINTER & PLOTTER MANUAL - 41
 The new printer and plotter manual is a major improvement over the old manual. It is more powerful and easier to use, and it provides a more secure environment for the user.

SUPPR RE-INJING METHOD - 41
 The new suppr re-injing method is a major improvement over the old method. It is more powerful and easier to use, and it provides a more secure environment for the user.

INTEGRATED SOFTWARE - 41
 The new integrated software is a major improvement over the old software. It is more powerful and easier to use, and it provides a more secure environment for the user.

COMBAT & SURVIVAL FITNESS - 41
 The new combat and survival fitness is a major improvement over the old fitness. It is more powerful and easier to use, and it provides a more secure environment for the user.

HEAL THYSELF - 41
 The new heal thyself is a major improvement over the old heal thyself. It is more powerful and easier to use, and it provides a more secure environment for the user.

POOR MAN'S SUPER-LASER - 41
 The new poor man's super-laser is a major improvement over the old laser. It is more powerful and easier to use, and it provides a more secure environment for the user.

GOLD FINGER - 41
 The new gold finger is a major improvement over the old gold finger. It is more powerful and easier to use, and it provides a more secure environment for the user.

MASS TRANSIT TERROR - 41
 The new mass transit terror is a major improvement over the old terror. It is more powerful and easier to use, and it provides a more secure environment for the user.

TECHNICAL RESEARCH SERVICES
 The new technical research services are a major improvement over the old services. They are more powerful and easier to use, and they provide a more secure environment for the user.

SPECIAL PROJECTS
 The new special projects are a major improvement over the old projects. They are more powerful and easier to use, and they provide a more secure environment for the user.

CONSULTANTS
 The new consultants are a major improvement over the old consultants. They are more powerful and easier to use, and they provide a more secure environment for the user.

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AN INTIMATE LOOK AT

Login unsuccessful—incorrect password. As has just been stated, a valid user id has been entered but the password was incorrect. Passwords can be from 1-8 characters long, but in many cases the minimum length is changed to be at least three characters. There is no difference between upper and lower case letters for either the userid or password as they are converted to upper case by the system. This is another security flaw as it reduces password possible.

Password incorrect—reinitiate login procedure. This is the message received on the older versions of VM/CMS, which means the same thing as the above message.

Maximum password attempts exceeded, try again later. The threshold has been reached for userid and/or password attempts. You will receive this message every time you attempt to login after exceeding the threshold until a variable period of time (probably from one to five minutes) has elapsed. This locks out all users who attempt to login to the system from that particular line. I am not sure whether this is recorded anywhere or whether it is sent to the system console. It's a good idea to determine how many attempts normally trigger this and keep just short of it.

Already logged on. This message will appear when you attempt to login with a valid userid and password and that userid is already online. Unlike other systems, VM/CMS will not allow the same userid to be logged on more than once.

Usenid missing or invalid. As it implies, nothing was typed after entering the LOGON command, or the format for the usenid was not correct. I.e. using a number as the first character or a control character used somewhere in the usenid field.

Error in CP directory. The CP directory is the main user directory for the system. Entries in the directory contain the usenid and password, VM I/O configuration, disk usage values, associated virtual and real addresses, privilege classes, virtual processor size, and other options for each user. Without the proper directory entry, a user cannot login to the system and will therefore receive this error message.

Command not valid before login. This occurs when you enter anything other than the commands listed in the main, i.e. entering **SOHEHEAD** will return this message even though **BNHEHEAD** isn't a valid command. Why this is I don't know. So don't get all excited

thinking you found a valid command but couldn't execute it since you weren't logged on.

Accounts

By constantly compiling usenids from various systems you should be able to collect a nice list of accounts which may enable you to gain access to a system. The following are a few which I have found:

OPERATOR	SMART
CMSBATCH	VTAM
AUTOLDB1	EREP
OPERBINS	RISGS
VMTEST	CMS
VMUTL	SNA
MAINT	

As usual, use the username as the password. Things will haven't changed from the Banking VAX/VMS series, people are just as stupid as they were a few years ago.

There are many default accounts which have the passwords listed in some IBM system manuals. These are hard to obtain and are very powerful since some passwords are rarely changed. If you can get access to the defaults, it will greatly expand your collection of systems—I guarantee it.

Dial

DIAL is used to logically connect lines, whether they be switched (regular dial-up phone lines), leased (dedicated), or logically attached (directly connected), to a previously logged on multiple-access system. The DIAL command is the only substitute for the login command. On systems running more than one operating system, DIAL is used to connect the user to one of these systems. It is rather common to find two or more operating systems running parallel or 'back-to-back'. This is quite different from most other systems, which run alone on the machine. One machine, one operating system, but not IBM. The ability to have multiple systems running simultaneously and still provide the user with the illusion of it being a single system (the whole idea behind multi-tasking computers) is provided each user with the full resources of the machine so quickly that it appears that the one is the only one using the system. IBM apart from most other computer manufacturers. Some of the systems which run on IBM's are: MVS/IMS, MVS/TSO, DOS/VSF, OS/VS1. Some others

IBM'S VM/CMS

are MUSIC, JES, and JXJ370 which is IBM's version of UNIX that runs under VM/SP.

It is always good to know what other systems are running, and if you are unable to gain access to the 'primary' system, you may be able to gain access to one of the 'secondary' systems by use of DIAL. Some systems will require you to specify a line number for certain systems. Others will find a line for you if one is not specified, assuming there are some allocated to that resource. Usenids are also dialable. In some cases you have to dial through a particular usenid in order to gain access to certain systems or perform certain commands. A typical login to a DIALed system may look like:

DIAL MUSICB

DIALED TO MUSICB 040

***Miscellaneous Computer Services MUSIC/SP 1.1 SIGN ON**

RESET

DROP FROM MUSICB 040

VM/370

When it comes to finding a valid line number for systems that can be reached via DIAL, you could be in for some trouble. If the system requires a line number to be entered (unlike the above example, where the 040 was found automatically), you will not only have to come up with a defined line number, but one that is associated with the system you are attempting to access. Usually you can find this information after logging onto the VM/CMS system in various files, but if you cannot get in, you will have to sequentially enter the numbers. Some that I have seen are 001, 01B, 41A, 040.

The VM/CMS system does not appear to limit the number of DIAL attempts a user can make, unlike LOGON attempts. Programming your mind to search for a valid line number to a system should work with no problem.

To drop the dialled connection just type **RESET**.

Error Messages

Line(n) not available on 'systeme'. Either there are no lines allocated to the system, or you must enter a correct line number.

Invalid device type 'systeme' 'line#'. You have entered a valid system or usenid and line number, but the device you are on (the terminal) is invalid. In this case, a GRAF (graphics) device, system console, or 3270 terminal may be the only valid device.

'usenid' not logged on. The DIAL command cannot be executed unless the user (or system) specified is logged on.

'line#' does not exist. A valid usenid/system has been entered but the line number (or that usenid/system) is not valid.

Message

MMSG is used to send messages to users who are currently logged on. This command can be issued before (if specified by the logon menu) and after logging in.

MSC OPERATOR Help! I lost my password! My usenid is DEMOSOLD.

This will send a message to the primary system operator of the system. If there is only one CLASS A user online, the message will be sent to his terminal.

MSS *

This will send a message to yourself. This is useful for identifying the current usenid of an abandoned terminal.

Logout

The LOGOFF command can be abbreviated as LOG. After logging off you will receive the following:

CONNECT = 00:33:54 VMTCPU = 000:00:28
TOTCPU = 000:01:16
LOGOFF AT 17:05:44 EST THURSDAY
04/16/87

CONNECT is the actual clock time you spent with on the system. **VMTCPU** is the virtual CPU time that was used. **TOTCPU** is the total CPU time, both virtual and overhead, that was used. The **HOLD** command will hold the connection

(Continued on next page)

PLAYING WITH IBM'S VM/CMS

allowing you to re-login again without having to re-dial the system.

LOG HOLD

Security Software

There are various weaknesses within VM/CMS both internally and externally when can be exploited. For this reason, various software security packages have been written. These would not be a need for these in most cases if the people in charge of system security knew what they were doing. Anyhow, these packages do provide added security when properly implemented. The most commonly found are VMSecure and ACE2. 10P SECRET and RACF are others which are less common. These packages are easily identified.

After entering a valid userid VMSecure responds with:

```
VMXACI1046 Enter login password:
*****
HHHHHHHHHHHHHHHHHHHHHHHHHHHH
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
```

One way to passively identify the use of VMSecure is by using it as a userid. If it is running it will be a valid userid, and who knows, you may even hack the password.

After entering a bad password, ACE2 (Access Control Facility 2) responds with:

```
ADCP1012 PASSWORD NOT MATCHED
ADCP0044 ACE2, ENTER PASSWORD
*****
HHHHHHHHHHHHHHHHHHHHHHHHHHHH
SSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
```

These packages provide information which should be inherent within the operating system itself. Perhaps newer versions of CMS will correct them. Some of these features are:

Last login date/time

Password expiration

Rules for password selection

Inactivating userids for invalid password attempts
Inactivating terminals for invalid password attempts

Shows user's low usage invalid password attempts have occurred on their userid
Inactivated file security

Logged On

After logging on you may receive something similar to the following:

```
BASED 190 LINKED R/O: R/W BY MAINT; R/O BY
000 USERS
LOBMISS 10:40:28 EST FRIDAY 05/22/87
WELCOME TO MISCELLANEOUS COMPUTER
SERVICES
VM1
SYSTEM WILL BE DOWN FROM 10:00 TO 10:30
EST SUNDAY MAY 24, 1987
```

```
Logon at 13:22:59 EST FRIDAY 05/22/87
VM/SP REL 4 04/20/86 11:33
```

```
R: T=0.01:0.01 13:23:10
```

Line #1. This line shows that the disk at virtual address 190 is linked with R/O access by you. R/W by userd MAINT and R/O by another 30 users.

Line #2. This shows that the logon message was received at 10:40 on Friday. Line #3-7. This is the message that is shown to all users of the system upon logging on. Some systems may not have one.

Line #8. The actual time of logon is printed. Line #9. The current RELEASE of VM/SP and the time and date it was installed is shown.

Line #10. This is the ready message and it is printed after every command is performed where: R=Ready—this indicates that the system is ready for input. f=time—the first series of numbers tells how long it took the system to perform the last task. The second set of numbers gives the time of day. If you do not receive the ready message you are in CP and must IPL CMS in order to issue CMS commands.

Line #11. The system prompt—you can now enter commands.

Privilege Classes

As with most other operating systems, a user must have sufficient privileges in order to execute certain commands. Every CP command belongs to one of eight IBM defined privilege classes. The CP directory defines which users

2600 marketplace

WANTED: Any hacker and phreaker software for IBM compatible and Hayes compatible modem. If you are selling or know anyone who is, send replies to Mark H., P.O. Box 7052, Port Huron, MI 48301-7052.

FOR SALE: Okidata Microline 92 personal printer. Includes manual for instructions. Hardly used. Make an offer and if it's reasonable, I will pay postage. Mark Kelly, 310 Isabel, Howell, MI 48843.

SUMMERCON '88—coming to NYC. Watch this space for more info.

TAP BACK ISSUES. Complete set, vol. #1 to and including vol. #91, including schematics and special reports. Copies in good to excellent condition. \$50.00, no checks, includes postage. T. Genese, 219 N. 7th Ave., Mt. Vernon, N.Y. 10550.

DOCUMENTATION on electronic and digital switching systems and PBX's. Willing to purchase/trade. Also looking for other paraphernalia such as Bell System Practices. Write to Bill, c/o 2800, P.O. Box 752C, Middle Island, NY 11953.

BLUE BOXING? Let's exchange info on phone numbers, parts, and etc. Write to: Blue Box, P.O. Box 117003, Burlingame, CA 94011, Attention D.C.

FOR SALE: 8038 multi-purpose tone generator chips, prime quality \$7.50 each p/d. Includes comprehensive applications data. Two chips will generate any dual tone format. These are no longer in production. Get 'em while they last. Bruce, P.O. Box 888, Suisun Beach, CA 94970.

FOR SALE: Radio Shack CPA-1000 Pen Register. Just like new, \$70.00. J.C. Devendorf, 29261 Buckhannon, Laguna Niguel, CA 92677-1618.

FOR SALE: Ex-Bell blue boxes, old and stylish, may even work! Also a wide range of old Bell comms equipment. Call 15141 288-6731 and ask for Rick for details.

DO YOU HAVE old outdated computer equipment lying around gathering dust? Why not donate it to 2600's growing bulletin board network? Support freedom of speech in your time! Contact 2600 at 15161 751-2800 or write 2600, PO Box 752, Middle Island, NY 11953.

FOR SALE: SWTPC Model CT-82 intelligent video terminal. Completely programmable (150 separate functions), RS-232C & parallel printer control, full ASCII keyboard w/cursor control pad, 9" P-31 CRT w/7x12 dot matrix—up to 92 column capability, 32 baud rates to 38,400—much more. Excellent condition with full documentation. Originally \$800, sell for \$125 or best offer. Bernie Spindel, 144 W. Eagle Rd., Suite 108, Haverton, PA 15083.

2600 MEETINGS. Fridays from 5-8 pm at the Citicorp Center in the Market (lobby where the tables are)—153 East 53rd Street, New York City. Come by, drop off articles, ask questions. Call 516-751-2600 for more info.

GOT SOMETHING TO SELL? Looking for something to buy? Or trade? This is the place! The 2600 Marketplace is free to subscribers! Just send us whatever you want to say (without making it too long) and we'll print it! Only people please, no businesses. Address: 2600 Marketplace, P.O. Box 99, Middle Island, NY 11953. Include your address label.

Deadline for December issue: 12/5.

LETTERS

(Continued from page 13)

TAP is Dead!

Dear 2600:

Can you tell me if a newsletter similar to yours called TAP is still being published and if so, what is their address?

D. L.

New York

TAP no longer exists, although back issues are being sold by different people (check the 2600 Marketplace). As far as we know, 2600 is unique in subject matter and approach, although there are some other hacking publications—some good, some bad. Look for reviews in future issues.

In last month's letters column, a reader told us that the 8038 chip used in our 1985 blue box schematic was no longer available. Several readers have notified us to claim otherwise. We understand the chip is obtainable through Javaco Electronics in California (ask any electronics store for their number) at a cost of around \$3.95.

Listening in

Prying ears, probably for reasons of security. The trouble that led frequencies are as well known as regular frequencies. A company called CRS Research, known for publications on surveillance and electronics, has a book called "The Top Secret Registry of U.S. Government Radio Frequencies" by Tom Kneitel. This book contains the frequencies, call signs, and radio codes of every U.S. Government Agency in existence, including such agencies as the FBI, CIA, DEA, and of particular interest to phreaks, the Secret Service. Earlier editions of this guide were bound computer hardcopy with everything lumped together and sorted by frequency. This made for something which was difficult to read, and difficult to use. However, it still remains the de-facto scanner guide to the feds, and was very popular.

The recently published (1987) sixth edition has eliminated the readability problems, and has added more non-frequency information which makes for an excellent publication. Inside the 5 1/2 x 11", 192-page book, there is an alphabetical listing of the various agencies. Further taking into the book we find that each agency listing is divided into sections containing frequency/frequency use, transmitter location/signs, and, when available, the various codes and song used by the particular agency. (Bandwidth will arrive at Outside rather than Power.) A particularly interesting section contained the listings for the U.S. Secret Service. Among the frequency/frequency customer/frequency use data was a list containing the call signs used for the presidential staff first families, and other related information. Did you know that Amy Carter's code name was "Dynamo"?

The Top Secret Registry is an excellent book and is highly recommended reading for those interested in listening to those who are listening to you. It's available for \$16.95 from CRS Research, P.O. Box 66, Cortlandt, NY 11725. And by the way... here are some rather active federal frequencies (in megahertz):

- Secret Service:**
155.375: "Charlie" nationwide priority channel
160.4525: "X-Ray" common channel for Treasury Dept.

- State Department:** Justice Department:
439.025 36.07
411.025

- General Services Administration:** (protection of federal buildings)
415.2
417.2

- Drug Enforcement Administration:**
416.05, 416.325, 418.75, 416.2

CORRECTION:

In last month's list of mass announcement numbers, we neglected to mention that they could also be reached from area code 718.

- 212-222-8108 Parents United
- 718-343 0130 Sororities
- 800 223 3331 A Bank
- 011 61 3 692-2982 Record-sexy sale tone

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